IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF: U.S. Patent No. 7,672,447

USPTO CONFIRMATION CODE: 4990

APPLICATION NO.: 09/584,796

FILED: June 1, 2000

EXAMINER: Alexander Jamal

GROUP ART UNIT: 2614

FOR: FREQUENCY DOMAIN ECHO CANCELLER

  37 CFR 1.322 & 37 CFR 1.323 REQUEST FOR CERTIFICATE OF CORRECTION
                FOR USPTO AND/OR APPLICANT MISTAKE

HONORABLE COMMISSIONER OF PATENTS & TRADEMARKS

SIR:

        The following is a request for a certificate of correction in Serial Number
09/584,796, now Patent Number 7,672,447.

        A certificate of correction under 35 USC 254 is respectfully requested in the
above-identified patent.

        The errors were the fault of both the applicant and USPTO and, accordingly,
please charge **$100.00** to our Deposit Account No. 50-1379. In the event that a further fee
is required, please charge the amount to the same Deposit Account.

        The exact locations where the errors appear in the patent and patent application
are as follows:

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On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 8, delete "Enchede," and insert - - Enschede - -, therefor.
(LIST OF REFERENCES CITED BY APPLICANT AND CONSIDERED BY EXAMINER DARED OCTOBER 13, 2009, SHEET 1 OF 1(PAGE 22 OF FW), UNDER "OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT", PAGES, ETC.), ENTRY 2, LINE 1)

In Fig. 7, Sheet 5 of 8, for Tag "104", Line 1, delete "V_i." and insert - - V_i, - -, therefor.
(ORIGINALLY FILED SPECIFICATION, IN THE DRAWINGS DATED JUNE 1, 2000, SHEET 5, FIGURE 7, TAG 104, LINE 1)

In Column 1, Line 43, delete "General" and insert - - Generally - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 2, LINE 2)

In Column 2, Line 52, delete "symbols." and insert - - symbol. - -, therefor.
(AMENDMENTS TO THE SPECIFICATION DATED MARCH 2, 2004, PAGE 2, LINE 7)

In Column 2, Line 53, after "is" insert - - (L+N) - -.
(AMENDMENTS TO THE SPECIFICATION DATED MARCH 2, 2004, PAGE 2, LINE 7)

In Column 5, Line 33, delete "of" and insert - - for - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 8, LINE 23)

In Column 5, Line 51, in Equation (1), delete "$X_i=[X_i(0), X_1(1,),$" and insert - - $X_i=[X_i(0), X_i(1,),$ - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 9, LINE 8, EQUATION (1))

In Column 6, Line 2, delete "receiving" and insert - - received - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 9, LINE 20)

In Column 6, Line 10, in Equation (4), delete "$x_i=QX_i$" and insert - - $s_i=QX_i$ - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 9, LINE 24, EQUATION (4))

In Column 7, Line 9, delete "N×I)" and insert - - N×1) - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 11, LINE 6)

In Column 9, Line 10, delete "$E_i = Y_i - \hat{Y}_i$" and insert - - $E_i = Y_i - \hat{Y}_i$ - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 13, LINE 16)

In Column 9, Line 57, delete "Ximag,$_1$" and insert - - Ximag$_i$ - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 15, LINE 2)

In Column 9, Line 60, Equation (24), delete "$(N/2)]^t$" and insert - - $(N/2)]^T$ - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 15, LINE 3, EQUATION 24)

In Column 10, Line 25, after "further" insert - - defined - -.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 15, LINE 17)

In Column 10, Line 26, delete "N-1" and insert - - L-1 - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 15, LINE 17)

In Column 11, Line 42, in Equation (40), delete "$\hat{Y}_i = V \cdot X_i + Z_i(X_i - \overline{X}_{i-1})$," and insert - - $\hat{\mathbf{Y}}_i = \mathbf{V}_i \bullet \mathbf{X}_i + \mathbf{Z}_i \left(\mathbf{X}_i - \overline{\mathbf{X}}_{i-1} \right)$ - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 17, LINE 21, EQUATION 40)

In Column 11, Line 63, in Equation (43), delete "$Z_{i+1} Z_i + \mu E_i (X_i^* - \overline{X}_{i-1}^*)^T$," and insert - - $\mathbf{Z}_{i+1} = \mathbf{Z}_i + \mu \mathbf{E}_i \left(\mathbf{X}_i^* - \overline{\mathbf{X}}_{i-1}^* \right)^T$ - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 18, LINE 5, EQUATION (43))

In Column 13, above Equation 47,
insert - - $$\mathbf{V}_{i+1} = \mathbf{V}_i + \mu \mathbf{E}_i \bullet \left(\mathbf{X}rep_i^* \right)^T \qquad\qquad (46)$$ - -.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 20, LINE 2, EQUATION (46))

In Column 13, Line 5, Equation (47), delete "$V_{i+1} = V_{i+\mu E i}(X_i^* - \overline{X}_{i-1}^*)^T$," and insert - - $\mathbf{Z}_{i+1} = \mathbf{Z}_i + \mu \mathbf{E}_i \left(\mathbf{X}_i^* - \overline{\mathbf{X}}_{i-1}^* \right)^T$ - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 20, LINE 3, EQUATION (47))

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In Column 13, Line 37, delete "$\{(V_i \cdot x_i)_1 q\}$" and insert - - $\{(V_i \cdot x_i),q\}$ - - , therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 20, LINE 20)

In Column 13, Line 51, in Equation (51),

delete "$Z_{i+1} = Z_i + \mu E rep_i (X_i^* \cdot \bar{X}_{i-1}^*)^T$," and

insert - - $\mathbf{Z}_{i+1} = \mathbf{Z}_i + \mu \mathbf{E} rep_i \left(\mathbf{X}_i^* - \bar{\mathbf{X}}_{i-1}^*\right)^T$ - - , therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 21, LINE 5, EQUATION (51))

In Column 14, Line 43, delete "(29)." and insert - - (39). - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 22, LINE 21)

In Column 16, Line 59, in Claim 17, after "remove" insert - - the transformed estimate - -.
(APPEAL BRIEF FILED DATED JANUARY 2, 2008, PAGE A4 (PAGE 151 OF FW), CLAIM 19, LINES 8-9)

The requested corrections are attached on Form PTO 1050.

Respectfully Submitted

, 2010   /SIDNEY L. WEATHERFORD,Reg#45602/
_____   _____
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